

ABSTRACT

A chemical hydride hydrogen generation system and an energy system incorporating the same are provided. The hydrogen generation system comprises: a storage means for storing a chemical hydride solution; a reactor containing a catalyst; a first supplying means for supplying the chemical hydride solution from the said storage means to the said reactor so that the chemical hydride solution reacts to generate hydrogen in the presence of the catalyst; and a second supplying means for continuously supplying the solvent of the said solution to the chemical hydride solution during the reaction. The said energy system comprises the said hydrogen generation system, a fuel cell for generating electricity and water from hydrogen and an oxidant, and a means for recovering the water generated in the said fuel cell and supplying the said water to the chemical hydride solution during the reaction.

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